## **CLAIM SUMMARY DOCUMENT**

Claims 1-12 (Previously Canceled)

- 13. (Previously Presented) A method of improving mucus clearance comprising administering to the respiratory tract of a patient in need of such treatment an effective amount of a polysaccharide having about the same number of hydrogen bonding sites as dextran.
- 14. (Currently Amended) A method of improving mucus clearance comprising administering to the respiratory tract of a patient in need of such treatment an effective amount of a polysaccharide having sugar moieties that stereochemically complement the oligosaccharide moieties native to the respiratory tract mucins in the manufacture of a medicament to improve mucus clearance.
- 15. (Previously Presented) The method of claim 14, wherein the polysaccharide comprises oligomers of galactose and fucose and the amino sugars glucosamine and galactosamine.
- 16. (Previously Presented) The method of claim 13, wherein the polysaccharide is administered in admixture with a pharmaceutically acceptable diluent or carrier.



- 17. (Currently Amended) The method of claim 16, wherein the diluent is sodium chloride or ringer Ringer solution.
- 18. (Previously Presented) The method of claim 13, wherein the polysaccharide is administered to the respiratory tract topically or by aerosol.
- 19. (Previously Presented) The method of claim 13, wherein the polysaccharide is present in the respiratory secretion at a concentration of about 4 mg/ml to about 40 mg/ml.
- 20. (Previously Presented) The method of claim 14, wherein the polysaccharide is administered in admixture with a pharmaceutically acceptable diluent or carrier.
- 21. (Currently Amended) The method of claim 20, wherein the diluent is sodium chloride or ringer Ringer solution.
- 22. (Previously Presented) The method of claim 14, wherein the polysaccharide is administered to the respiratory tract topically or by aerosol.
- 23. (Previously Presented) The method of claim 14, wherein the polysaccharide is present in the respiratory secretion at a concentration of about 4 mg/ml to about 40 mg/ml.

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- 24. (Previously Presented) A method of treating lung disease associated with impaired mucus clearance comprising administering to the respiratory tract of a patient in need of such treatment an effective amount of a polysaccharide having about the same number of hydrogen bonding sites as dextran.
- 25. (Previously Presented) The method of claim 24, wherein the lung disease is cystic fibrosis, chronic bronchitis, bronchiectasis or bronchial asthma.
- 26. (Previously Presented) A method of treating lung disease associated with impaired mucus clearance comprising administering to the respiratory tract of a patient in need of such treatment an effective amount of a polysaccharide having sugar moieties that stereochemically complement the oligosaccharide moieties native to the respiratory tract mucins in the manufacture of a medicament to improve mucus clearance.
- 27. (Previously Presented) The method of claim 26, wherein the polysaccharide comprises oligomers of galactose and fucose and the amino sugars glucosamine and galactosamine.
- 28. (Previously Presented) The method of claim 26, wherein the lung disease is cystic fibrosis, chronic bronchitis, bronchiectasis or bronchial asthma.

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- 29. (Previously Presented) A method of improving mucus clearability in a patient having cystic fibrosis comprising administering to the respiratory tract of a patient in need of such treatment an effective amount of a polysaccharide having about the same number of hydrogen bonding sites as dextran.
- 30. (Previously Presented) The method of claim 29, further comprising the step of assessing liquification of secretions of said patient following treatment.
- 31. (Previously Presented) The method of claim 29, further comprising the step of assessing viscosity and elasticity of sputum of said patient following the treatment.
- 32. (Previously Presented) The method according to claim 29, wherein the polysaccharide is present in the respiratory secretion at a concentration of about 4 mg/ml to about 40 mg/ml.
- 33. (Previously Presented) A method of improving mucus clearability in a patient having cystic fibrosis comprising administering to the respiratory tract of a patient in need of such treatment an effective amount of a polysaccharide having sugar moieties that stereochemically complement the oligosaccharide moieties native to the respiratory tract mucins in the manufacture of a medicament to improve mucus clearance.

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- 34. (Previously Presented) The method of claim 33, wherein the polysaccharide comprises oligomers of galactose and fucose and the amino sugars glucosamine and galactosamine.
- 35. (Previously Presented) The method of claim 33, further comprising the step of assessing liquification of secretions of said patient following treatment.
- 36. (Previously Presented) The method of claim 33, further comprising the step of assessing viscosity and elasticity of sputum of said patient following the treatment.
- 37. (Previously Presented) The method according to claim 33, wherein the polysaccharide is present in the respiratory secretion at a concentration of about 4 mg/ml to about 40 mg/ml.